



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C. 20380

NORMAL

TI-4733-35/5A
30 MAY 1997

U.S. MARINE CORPS TECHNICAL INSTRUCTION

CALIBRATION EQUIPMENT RECOMMENDATIONS

MARINE CORPS CALIBRATION PROGRAM

Encl: (1) Mailing Addresses

1. Purpose. To provide guidance in recommending additional calibration equipment.
2. Cancellation. TI-4733-35/5
3. Information. Commanders of organizations authorized Marine Corps calibration facilities may recommend additional calibration equipment for the following situations:
 - a. When a new calibration capability is required to process local workload.
 - b. When local workload requires additional calibration equipment to augment a like or similar item.
 - c. When replacement of an inferior item is required to reduce calibration time and/or a higher order of accuracy is required.
4. Equipment Recommended. Any item of equipment used during calibration and/or maintenance of Test, Measurement and Diagnostic Equipment (TMDE) may be recommended.
5. Responsibility
 - a. Commander Marine Corps Systems Command (COMMARCORSSYSCOM), TMDE/CTMS. The Commander Marine Corps Systems Command, TMDE/CTMS is responsible for final review and approval/disapproval of recommendations for additional calibration equipment and for funding of and initiating procurement action for those items approved.

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b. Marine Corps Liaison Office (MS-43). Naval Warfare Assessment Division. Corona, California. The Marine Corps Liaison Office (MS-43), Corona, California is responsible for initiating an evaluation by the Naval Warfare Assessment Division and submitting a technical recommendation to the COMMARCORSYSCOM, TMDE/CTMS for each recommendation for additional calibration equipment.

c. Marine Corps Multiple Commodity Maintenance Centers (MC)3. The Marine Corps Multiple Commodity Maintenance Centers, Marine Corps Logistics Bases, Albany, Georgia, and Barstow, California, are also responsible for recommending additional calibration equipment for those types of situations listed in paragraph 3. Recommendations shall be in letter form addressed to the Commander Marine Corps Systems Command, TMDE/CTMS, 2033 Barnett Avenue, Suite 315, Quantico, Virginia 22134-5010 with a copy to the Naval Warfare Assessment Division (MS-43), P.O. Box 5000, Corona, California 91718-5000. Each recommendation shall contain the following information:

- (1) Manufacturer
- (2) Model number
- (3) Common use name
- (4) Quantity required
- (5) Unit cost. Provide the source of the price (such as manufacturer's manual dated 1995), estimated cost, etc.
- (6) Installation cost
- (7) Indicate the local capability to properly utilize the item. List any additional requirements, such as personnel, training, auxiliary equipment, procedures, and/or facilities.
- (8) Describe the item, to include all characteristics. A copy of the manufacturer's brochure attached as an enclosure will normally suffice for this requirement.
- (9) Provide a full description of the required use of the item. Indicate the actual electrical/physical characteristics required, such as frequency range, accuracy, noise figure, burn, distortion, stability, input-output impedances, special configurations, physical matching tolerances, etc. Copies of the calibration procedure(s) and/or maintenance manual(s), for the supported equipment, attached as an enclosure(s), may suffice for this requirement.
- (10) Indicate the ability to locally calibrate the recommended item, including calibration interval and estimated time required to calibrate. Additionally, for those items not

within local calibration capabilities, indicate the calibration facility which will calibrate the item and the hourly labor rate charged by that facility.

(11) Indicate what alternate methods, equipment, or setups have been considered.

(12) Identify directives, procedures, and/or technical manuals when the recommended item is listed as a required item.

(13) Provide a list of instruments and quantities requiring support. Include the calibration interval of each and the estimated time to calibrate. When the recommended item is to be used for repair of specific items, provide the estimated average repair time.

(14) When the recommended item will reduce calibration/maintenance time, give full details of the time savings, to include estimated savings per item and total savings per year.

(15) When the recommended item will allow calibration/maintenance of equipment which are currently beyond local capability, identify external sources for such calibration/maintenance. (Include the labor rate, shipping charges, and turnaround time.)

(16) Provide any additional pertinent information to justify or clarify any of the foregoing which will assist in the evaluation of the request.

d. Commands and Authorized Transportable Calibration Complexes. Commands authorized transportable calibration complexes are responsible for:

(1) Recommending additional calibration equipment for those situations listed in paragraph 3. Recommendations shall be in letter form and addressed, via the appropriate chain of command, to the COMMARCORSYSCOM, TMDE/CTMS (address listed in paragraph 5c) with copies to the Naval Warfare Assessment Division (MS-43), Corona, California (address listed in paragraph 5c), and all other commands authorized transportable calibration complexes. (Addresses are provided in the enclosure.) Each recommendation shall contain the information specified by paragraphs 5c(1) through (16), preceding.

(2) Reviewing recommendations submitted by over commands and submitting comments. Comments shall be in letter form and addressed, via the appropriate chain of command, to the COMMARCORSYSCOM, TMDE/CTMS (address listed in paragraph 5c) with copies to the command which submitted the recommendation and the Naval Warfare Assessment Division (MS-43), Corona, California (address listed in paragraph 5c). (Addresses are provided in the enclosure.) Comments shall be one of three types:

(a) No Requirement. When there is no local requirement for the recommended item.

(b) Requirement. When there is a local requirement for the recommended item. This type comment shall contain the information specified by paragraphs 5c(4), (7), (10), (11), (13), (14), (15), and (16).

(c) Alternative. This type comment shall provide full details of alternate methods, equipment, or setups and provide information specified by paragraphs 5c(1) through (16), as appropriate.

e. Test, Measurement, and Diagnostic Equipment School. The Test, Measurement, and Diagnostic Equipment School, Keesler AFB, Biloxi, MS, is responsible for recommending calibration equipment for those situations listed in paragraph 3. Recommendations shall be in letter form addressed to the COMMARCORSYSCOM, TMDE/CTMS (address listed in paragraph SC) with copies to the Naval Warfare Assessment Division (MS-43), Corona California (address listed in paragraph 5c). Each recommendation shall contain the information listed by paragraphs 5c(1) through (16), preceding.

BY DIRECTION OF THE COMMANDANT OF THE MARINE CORPS

OFFICIAL



M.K. HAYDEN
Colonel, USMC
Director, Program Support
Marine Corps Systems Command

DISTRIBUTION: PCN 167 471045 00

MAILING ADDRESSES

1. Marine Forces Calibration Facilities

Commanding Officer
Attn: (Calibration Chief)
Electronics Maintenance Company
3d Maintenance Battalion
3d FSSG, MARFORPAC, Unit 38425
FPO AP 96604-8425

Commanding Officer
Attn: (Calibration Chief)
Electronics Maintenance Company
1st Maintenance Battalion, 1st FSSG
MARFORPAC, Box 555647, (Building 22220)
Camp Pendleton, CA 92055-5647

Commanding Officer
Attn: (Calibration Chief)
Electronics Maintenance Company
2d Maintenance Battalion (Bldg FC-285)
P.O. Box 20127, 2d FSSG, MARFORLANT
Camp Lejeune, NC 28542-0127

Commanding Officer (69009)
Attn: (Calibration Chief)
Maintenance Company
CSSG-3, 3rd FSSG, MARFORPAC, 63030 (Bldg 6039)
MCBH Kaneohe Bay, HI 96863-3030

Commanding Officer
Attn: (Calibration Chief)
Maintenance Company, CSSG-1, MARFORPAC
MCAGCC, P.O. Box 788280 (Bldg 1925)
29 Palms, CA 92278-2820

Commanding Officer (NOTE)
Attn: (Calibration Chief)
MWCS-18, MACG-18
1stMAW, MARFORPAC
FPO San Francisco, CA 96602

ENCLOSURE (1)

NOTE

The MWCS-18 Calibration Facility is currently collocated with the 3d FSSG Calibration Facility.

Commanding Officer
Attn: (Calibration Chief) Bldg 3919
MWCS-28, MACG-28, 2d MAW
MARFORLANT, PSC Box 8071
Marine Corps Air Station
Cherry Point, NC 28532-8071

Commanding Officer
Attn: (Calibration Chief)
MWCS-38, MACG-38
3dMAW, MARFORPAC
Marine Corps Air Station, El Toro
Santa Ana CA 92709-6042

Commanding Officer
Attn: (Calibration Chief)
MACG-48, MARFORRES
Philip H. Sheridan Reserve Center
Patton Rd, Bldg 142, PO Box 669
Highwood, IL 60037-1227

2. Non-FMF Calibration Facilities

Commanding General
Metrology Branch (B884)
Marine Corps Multi-Commodity Maintenance Center ((MC)3)
PO Box 110880
Marine Corps Logistics Base
Barstow, CA 92311-5015

Commander
Metrology Branch (A884)
Marine Corps Multi-Commodity Maintenance Center ((MC)3)
Bldg 2235
Marine Corps Logistics Base
Albany, GA 31704-5001

ENCLOSURE (1)